

## CLAIMS

What is claimed is:

1. A method for transmitting data over a computer network to a predetermined recipient, the method comprising:

modifying at least one data byte in a first data message based on a first message modification key value to obtain a modified first data message, the first message modification key value being determined based on at least one variable parameter;

modifying at least one data byte in a second data message based on a second modification key value to obtain a modified second data message, the second message modification key value being determined based on at least one variable parameter;

transmitting the first and second modified data messages to a first device;

determining the first data message in the first device for the predetermined recipient based on the modified first data message and the first message modification key value; and,

determining the second data message in the first device for the predetermined recipient based on the modified second data message and the second message modification key value.

2. The method of claim 1 wherein the variable parameter comprises a time-varying parameter.

3. The method of claim 2 wherein the time-varying parameter includes at least one of a determined hour, minute, and second.

4. The method of claim 1 wherein the first message modification key value being determined based on at the least one variable parameter and a unique identifier associated with the predetermined recipient.
5. The method of claim 1 wherein the modifying at least one byte of the first data message includes adding the first message modification key value to the at least one data byte of the first data message.
6. The method of claim 1 further comprising transmitting the first and second message modification key values to a first computer.
7. The method of claim 1 wherein the first and second modified data messages are both transmitted via a first communication channel.
8. The method of claim 6 wherein the first and second message modification key values are both transmitted via a second communication channel.
9. The method of claim 1 wherein said first data message comprises voice data.
10. The method of claim 1 wherein said first data message comprises video data.

11. A system for transmitting data over a computer network to a predetermined recipient, the system comprising:

a first device configured to modify at least one data byte in a first data message based on a first message modification key value to obtain a modified first data message, the first message modification key value being determined based on at least one variable parameter, the first device further configured to modify at least one data byte in a second data message based on a second modification key value to obtain a modified second data message, the second message modification key value being determined based on at least one variable parameter, the first device configured to transmit the first and second modified data messages; and,

a second device configured to receive the transmitted first and second modified data messages and to determine the first data message for the predetermined recipient based on the modified first data message and the first message modification key value, the second device further configured to determine the second data message for the predetermined recipient based on the modified second data message and the second message modification key value.

12. The system of claim 11 wherein the first and second devices comprise first and second computers, respectively, operatively communicating with one another.

13. The system of claim 11 wherein the variable parameter comprises a time-varying parameter.
14. The system of claim 13 wherein the time-varying parameter includes at least one of a determined hour, minute, and second.
15. The system of claim 11 wherein the first message modification key value is determined based on at the least one variable parameter and a unique identifier associated with the predetermined recipient.
16. The system of claim 11 wherein the first device is configured to modify the at least one byte of a first data message by adding the first message modification key value to the at least one data byte of the first data message.
17. The system of claim 11 wherein the first device is further configured to transmit the first and second message modification key values to the second device.
18. The system of claim 11 wherein the first and second modified data messages are transmitted via a first communication channel.
19. The system of claim 11 wherein said first data message comprises voice data.
20. The system of claim 11 wherein said first data message comprises video data.

21. A storage medium encoded with machine-readable computer program code for transmitting data over a computer network, the storage medium including instructions for causing at least one network element to implement a method comprising:

modifying at least one data byte in a first data message based on a first message modification key value to obtain a modified first data message, the first message modification key value being determined based on at least one variable parameter;

modifying at least one data byte in a second data message based on a second modification key value to obtain a modified second data message, the second message modification key value being determined based on at least one variable parameter;

transmitting the first and second modified data messages to a first device;

determining the first data message in the first device for the predetermined recipient based on the modified first data message and the first message modification key value; and,

determining the second data message in the first device for the predetermined recipient based on the modified second data message and the second message modification key value.